

IN THE SPECIFICATION

In accordance with 37 C.F.R. § 1.121(b), please amend the specification by deleting the first full paragraph on page 4 and ~~replacing~~ said paragraph with the following paragraph.

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The dividing wall can be made only of a material that can withstand the temperatures in the radiant zone of the reactor, which can exceed temperatures of 2200°F. Accordingly, the dividing wall may be comprised of conventional fire brick. The dividing wall may also be comprised of a cloth-type material known as NEXTEL brand ceramic fiber textile, or may be a curtain made of this material. In this type of embodiment, the curtain is hung from rod supports. Other materials that provide similar thermal properties may also be used.

In accordance with 37 C.F.R. § 1.121(b), please ~~amend~~ the specification by deleting the second full paragraph on page 4 and replacing said paragraph with the following paragraph:

Ad.

NEXTEL is a tradename of the 3M Company for a family of ceramic fiber textile products. NEXTEL ceramic fiber textile products are made from a synthetic precursor, not molten refractory oxides as are typically the case with ceramics. The synthetic fibers are formed in a continuous length to a controlled diameter and are then pyrolyzed to convert the synthetic materials into a ceramic. The continuous filament ceramic fibers are spun into yarns and roving that can then be used to weave, braid, knit or twist a variety of textile product forms, including a

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fabric for the curtains of the present invention. Preferred for use is NEXTEL 312 brand ceramic fiber textile product that is composed of alumina/silica/boria. Also contemplated for use herein is NEXTEL 440 brand ceramic fiber textile product.

In accordance with 37 C.F.R. § 1.121(b), please amend the specification by deleting the paragraph bridging pages 5 and 6 and replacing said paragraph with the following paragraph.

The furnace 2 of Figure 1 is also provided with four process coils. The first process coil 40 is preheated in exchanger 42 in the convection chamber 4 and then proceeds through into the first separate independent radiant zone 12. The second process coil 44 is preheated in exchanger 46 in the convection chamber 4 and then proceeds through the second independent radiant zone 14. The third process coil 48 is preheated in exchanger 50 and then proceeds through the third independent radiant zone 18. The fourth process coil 52 is preheated in exchanger 54 and then proceeds through the fourth independent radiant zone 20. In Figure 2, for example, each of the four radiant zones 12, 14, 18 and 20 is provided with two process coils, 40A, 40B, 44A, 44B, 48A, 48B, 52A and 52B, respectively.

A marked up version of the substitute paragraphs in accordance with 37 C.F.R. §§ 1.121(b)(1)(iii) is also attached hereto.